Neon Flex Specification

N006096BA3SF(N0612)-Single sided



























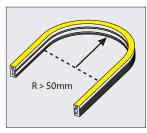


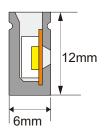
Product Parameter

06x12 Single sided neon flex led strip, can bend left and right;

- · Light source: highlights LED chips;
- · Control method: SPI signal, each LED is addressable individually controlled
- · Craft material: high -light transmission and environmental -friendly silicone material, good flexibility of silicone material;
- · Optical design: Unique optical light structure design, uniform light on the surface, no shadow, no light spots, very soft light;
- · Exterior design: simple and fashionable, exquisite and unique brings better lighting performance to indoor/outside applications;
- · Product certification: UL, CE, RoHS;
- \cdot Environmental characteristics: salt tolerance, corrosion resistance, flame retardant, UV resistance;
- · Work / storage temperature: TA: -25 \sim 55 $^{\circ}$ C / 0 $^{\circ}$ C \sim 60 $^{\circ}$ C;
- \cdot Product application: signature lighting, outdoor/interior decoration, architectural contour application;
- · 2 years of quality insurance, working life ≥36000 hours.







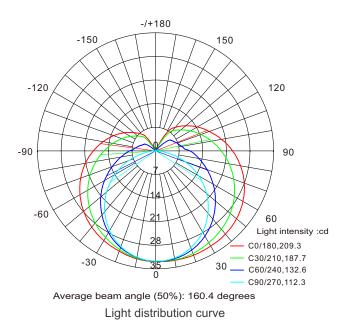
PN	Color	Wavelength	LED Qty/M	Pixel/M	Cutting Length	Voltage	Power	Luminance (lm/m)		Max Length
N006096BA3SF (N0612)- Single sided	RGB	R:620-630nm G:520-530nm B:460-470nm	SMD2835 96PCS/m	96Pixel SK6812	31.25mm	DC5V	19W/m	R:15.5lm G:48lm B:10.5lm	3025 ±15mm	5m

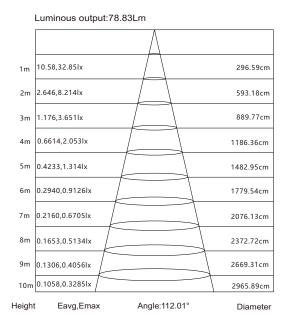
Remarks:

- 1. The above parameters are tested based on 1M standard products;
- 2. The luminous flux is allowed to have an error range of ±10%;
- 3. The above parameters are typical values;
- 4. When this neon led is longer than 5 meters, it needs power from both ends;
- 5. Subject to change without prior notice.
- 6. Length tolerance applies. Actual product dimensions may vary.



Product light distribution curve

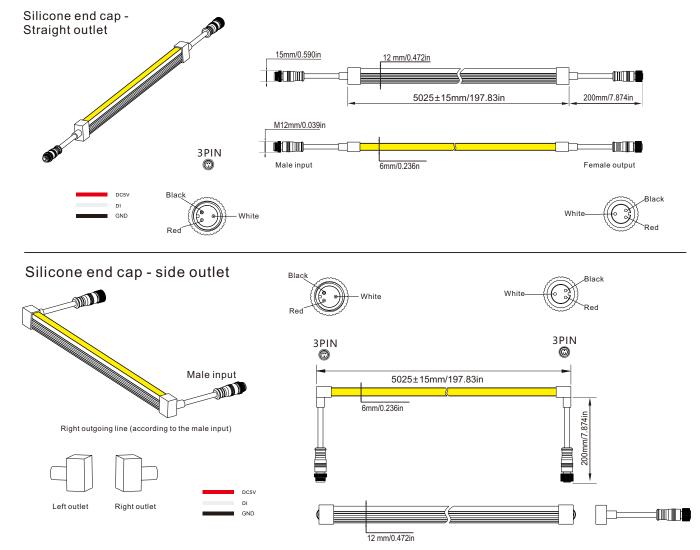




Note: the curve is the illumination area and the average illumination within the area of the lamp under different projection distance

Effective average illumination

Mechanical parameters

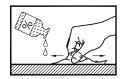


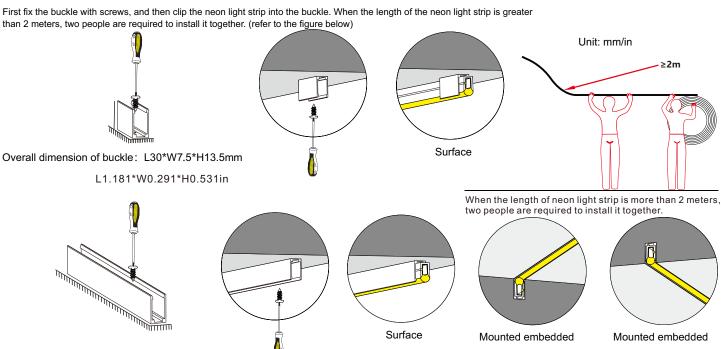
Note: Length tolerance applies. Actual product dimensions may vary.



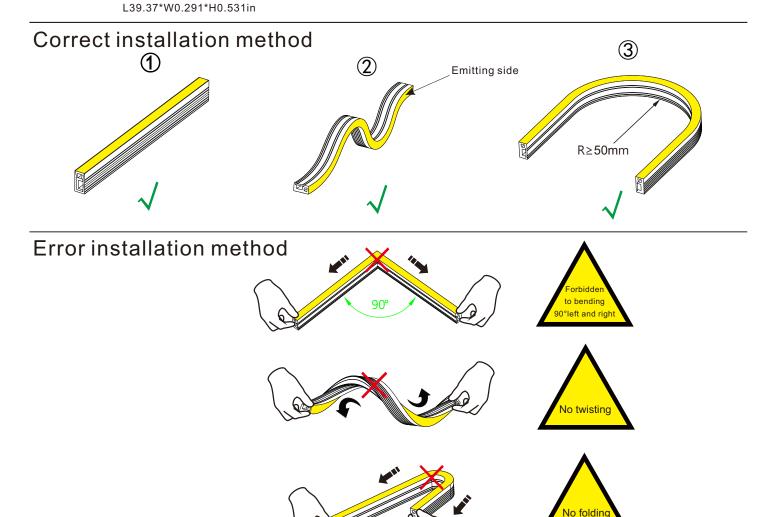
0612 Installation diagram

Wipe the dust on the installation luminous surface with clean water.



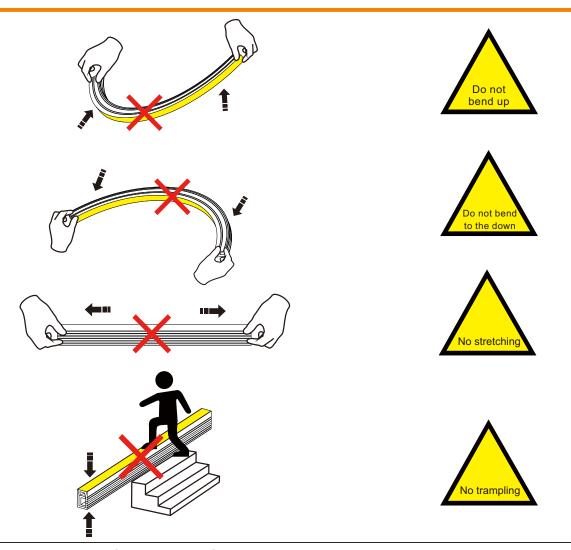


Overall dimension of aluminum profile: L1000*W7.5*H13.5mm



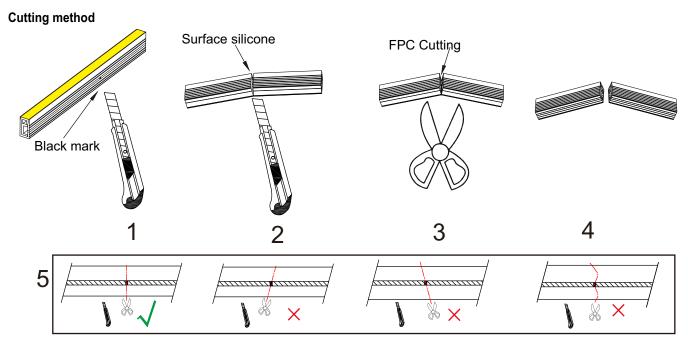
in half





Cutting and the waterproof treatment of both ends

By default, our products will be shipped in regular lengths according to customer requirements. If the customer has to cut and assemble on site, we can provide some end caps with holes and end caps without holes (all sections can be used). However, please note that in this case, the front and rear ends must be glued for waterproof treatment.

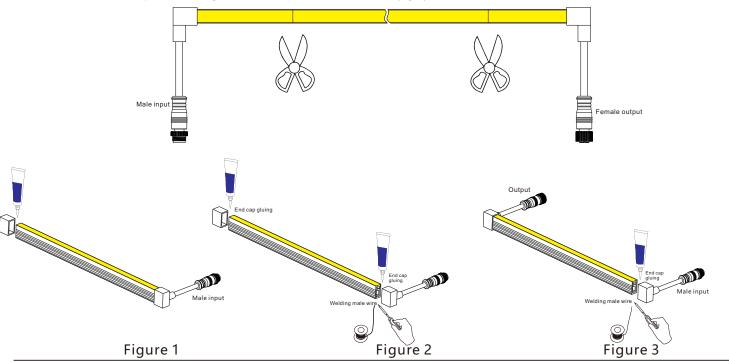


Cutting precautions



Waterproof treatment after cutting

- 1. The cut output end is glued and plugged with a non hole end cap (Fig. 1);
- 2. If there is no welding cable at the head and tail ends after cutting, first thread the male wire through the end cap, then weld it to the head end of the LED neon flex, and then apply glue for waterproof treatment (Fig. 2);
- 3. If there is no cable at the input end of cutting, and the male input cable must be welded (Fig. 3).

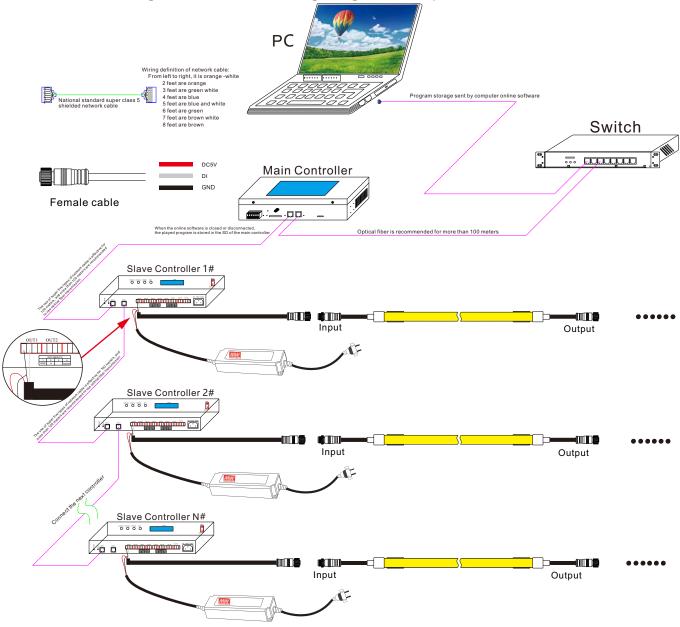


Matters needing attention

- · Please use the 5VDC isolation power supply to drive the LED light bar, and the ripple of the constant voltage source is less than 5%. The LED light bar cannot be used to drive the type of power supply and other types of power supply.
- · In actual applications, the power supply should be kept by 20% (it is recommended to use only 80% of the power) to ensure a sufficient voltage -driven product.
- · Please be careful. When the power is connected, do not touch the AC power supply end to prevent electric shock.
- · Pay attention to the positive and negative pole of the power cord. Do not connect the mistake. Whether the power supply and the voltage of the product are consistent, so as not to cause product damage.
- · During the installation process, please avoid scraping, twisting and irregular bending of the product, otherwise it may cause damage to the product that cannot be repaired.
- · In order to ensure the life and reliability of the light band, please do not bend at the radian of less than 80mm in the radius. The too small bending radius will damage the product itself.
- · As the actual application length exceeds the prescribed length, it will lead to the phenomenon such as over loading and incomparable brightness.
- · In order to prevent the eyes from being harmed, try to avoid glowing the lights that are lit up for a long time. Non-professional personnel are prohibited from installing, disassembling and maintenance of products.
- · It is strictly forbidden to use any acidic, alkaline adhesive fixed product (including not limited to glass glue, etc.).
- · Different IP -level use scenarios with different products, IP67 is not suitable for water -soaking environment.
- · Different sizes of products Due to the differences in structure at the same color temperature, the product is slightly deviated in the end, and it must be confirmed before use.
- · Please use professional tailoring tools when cutting.



Main control - integrated control wiring diagram computer



Product control system solution

Product picture Name		PN	Product specifications	Applicable products
Main controller XS-809		XS-809-A	Power supply: ac110-240v Power: 10 W Data interface: network interface Memory card type: SDHC card Operating temperature: -10 - 60 Size: 260mm * 160mm * 52mm(L*W*H) Weight: 2.0kg	SPI Neon flex DMX512Neon flex
T prim 15	Slave controller	T-790	Power supply: ac110-240v Power: 5 W Output type: 4Pin connector Operating temperature: -20 - 85 Size: 310mm * 152mm * 42mm(L*W*H) Weight: 2.0kg	SPI Neon flex DMX512Neon flex
	Offline controller K-1000C		power supply: DC 5V or DC 12-24V input Power consumption: 2 W Output type: 3pin terminal block Operating temperature: -30 - 85 Size: 159mm * 89mm * 24mm(L*W*H) Weight: 0.35kg	SPI Neon flex DMX512Neon flex



Product Accessories

Name	Describe	Picture	Net weight (g)	Product size (mm)	Remarks
Alum LED Profile	Pre installation slot		63g	L1000xW7.5xH13.5	Aluminum
Alum LED Profile	Pre installation slot		1.83g	L30xW7.5xH13.5	Aluminum
Modeling carrier	Shapable mounting slot		200g	L5000xW7.7xH10.5	Stainless steel
Straight outlet end cap	Silicone front outlet end cap		1.26g	L14xW8xH24	Silicone
Side outlet end cap	Silicone side outlet end cap		1g	L14xW14xH16	Silicone
Seal the end cap	Silicone sealing end cap		0.8g	L14xW8xH13	Silicone
Filling glue	300h mono molecular silica gel		125g	L32xW46xH17	Liquid glue
Female Connector	3PIN connector	Miles	23g	φ15xL200	PVC
Male Connector	3PIN Connector		18g	φ15xL200	PVC
Connector	3PIN IP65 Connector	The state of the s			PVC
Power supply	240W waterproof power supply		1.38Kg	L244.2xW68xH38.8	
Power supply	350W Non-waterproof power supply		0.82Kg	L215xW115xH30	
Power supply	400W rainproof power supply		1.23Kg	L220.4xW130xH48	



Product packaging

· Standard packaging

1.For carton packaging, the line label is pasted 80mm away from the end of the line, the information label is pasted on the product, and the product information label and box number label are pasted on the side of the carton,QC inspection stamp.









Voltage & input line identification

Product information label

2.For single carton packaging, the line label is pasted 80mm away from the end of the line, the information label is pasted on the product, and the product information label and box number label are pasted on the side of the carton,QC inspection stamp.









Voltage & input line identification

Product information label

3. For wooden case packaging, the line label is pasted 80mm away from the line end, the information label is pasted on the product, and the product information label and box number label are pasted on the side of the carton,QC inspection stamp.









Voltage & input line identification

Product information label

Name	Size	Quantity / box	Quantity / box	Net weight of single product (kg)	Net weight of each box (kg)	Gross weight (kg)	Outer box size (mm)
Carton	L5000*6*12mm	5m*8	40m	0.43	3.4	3.9	320*320*110
Carton	L5000*6*12mm	50m*1	50m	4.2	4.2	4.9	320*320*110
Wooden case	Customized to order	/	/	0.43/5m	/	/	/



Reliability testing

Test item	Test requirement	Test standard	Test method or condition			
	Mechanical strength	GB-7000.1	Impact hammer 0.7 J			
	Dust and water proof test	GB-7000.1	IP67			
	Winding test	GB-7000.1	φ150mm wooden disc, 60N tension, 10 times at room temperature, 10 times after cold treatment (-15°C±2°C, 16h)			
Safety regulation	Low temperature winding test	GB-7000.1	Winding the winding shaft, low temperature box -c, after 16h,15 °C± 2 °C winding the winding shaft for 2 turns			
test	Low temperature impact test	GB-7000.1	Winding the winding shaft, low temperature box -15°C±5°C, after 16h, winding the winding shaft for 2 turns			
	Insulation resistance	GB-7000.1	$\leq 2M\Omega$			
	Electrical strength	GB-7000.1	500V			
	Left and right bending test	Internal standards	With an interval of 200mm (including welding points), the left and right bends are respectively 100 times			
Mechanical reliability test	Distortion test	Internal standards	Twist clockwise for 5 turns and then relax. Repeat for 100 times			
	Falling test	Internal standards	100 times of wrestling			
	High temperature storage	GB/T 2423.2	60°C, 168 hours			
	Low temperature storage	GB/T 2423.1	-30°C, 168 hours			
	High temperature and humidity operation	GB/T 2423.3	60°C, 85%RH			
Environmental reliability test	Salt spray Test	GB/T 2423.17	5% salt solution concentration, 24h			
	IK Test	GB/T 20138	Each exposed surface bears 5 impacts			
	Normal temperature aging	Internal standards	25℃, 6000 hours			
	Switching impulse	Internal standards	10s on, 10s off, 10000 times			